

FIG. 1

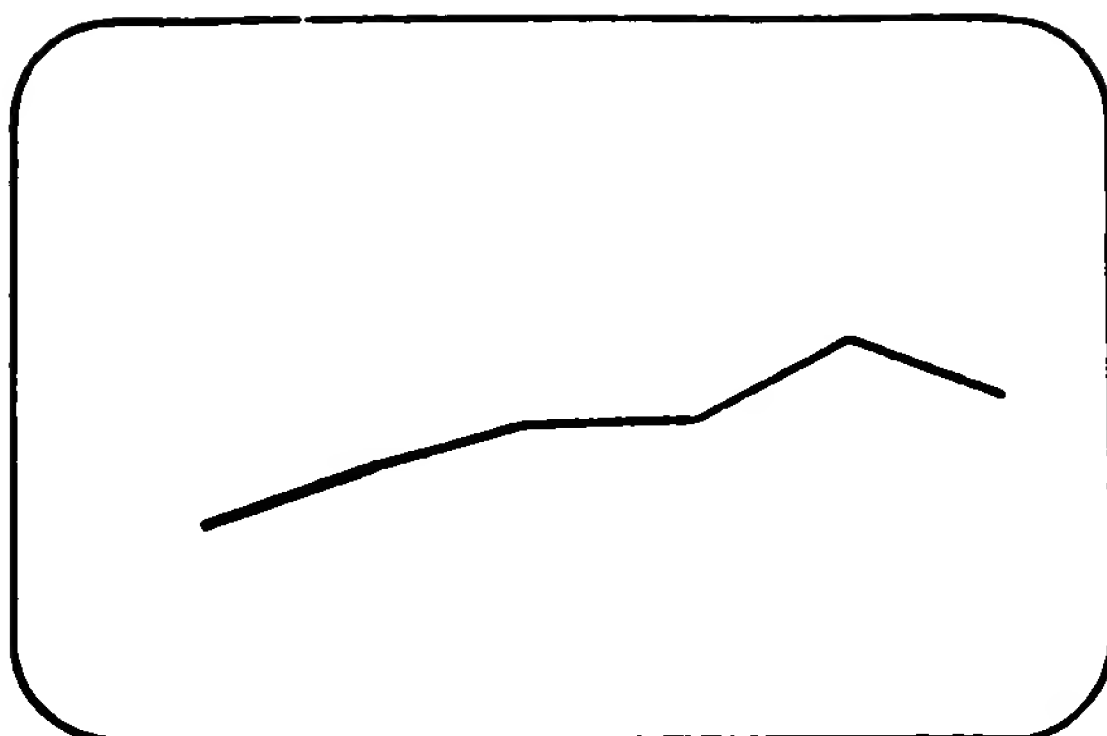


FIG. 1A

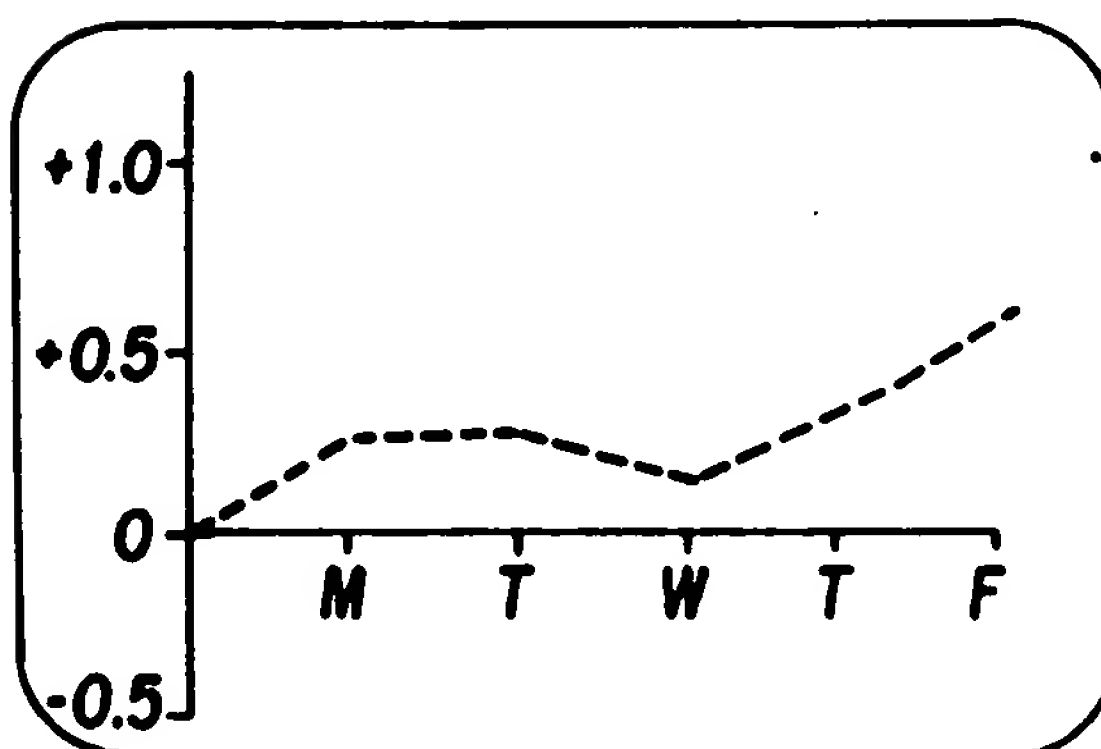


FIG. 1B

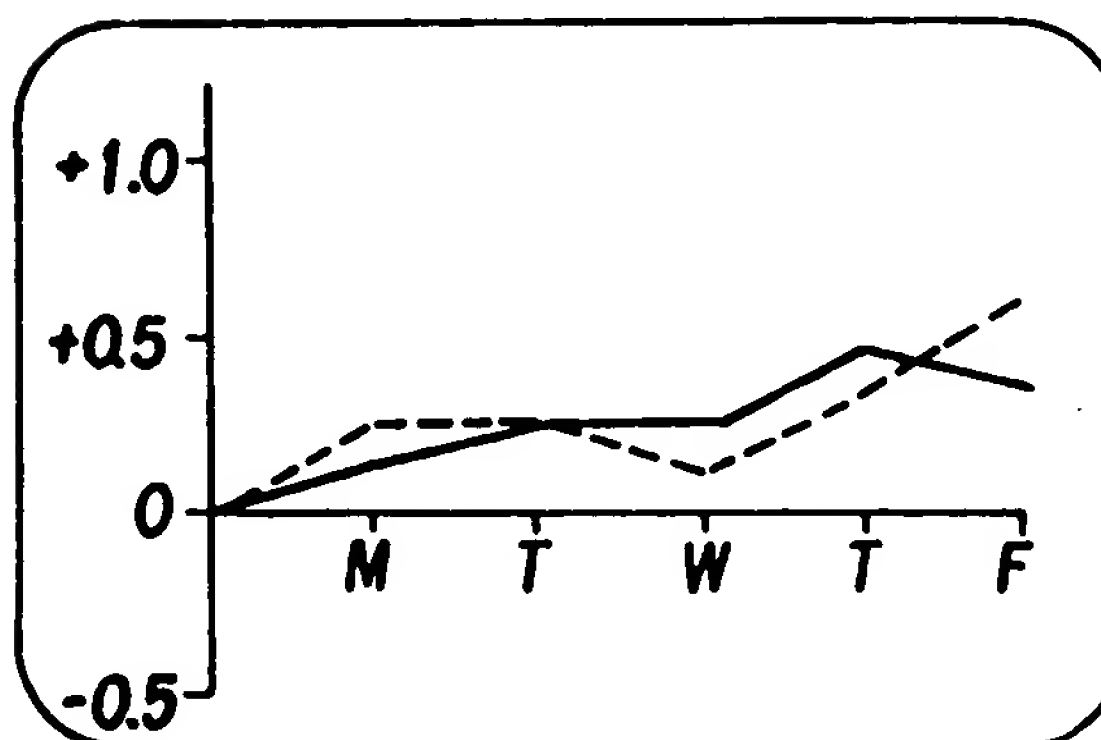


FIG. 1C

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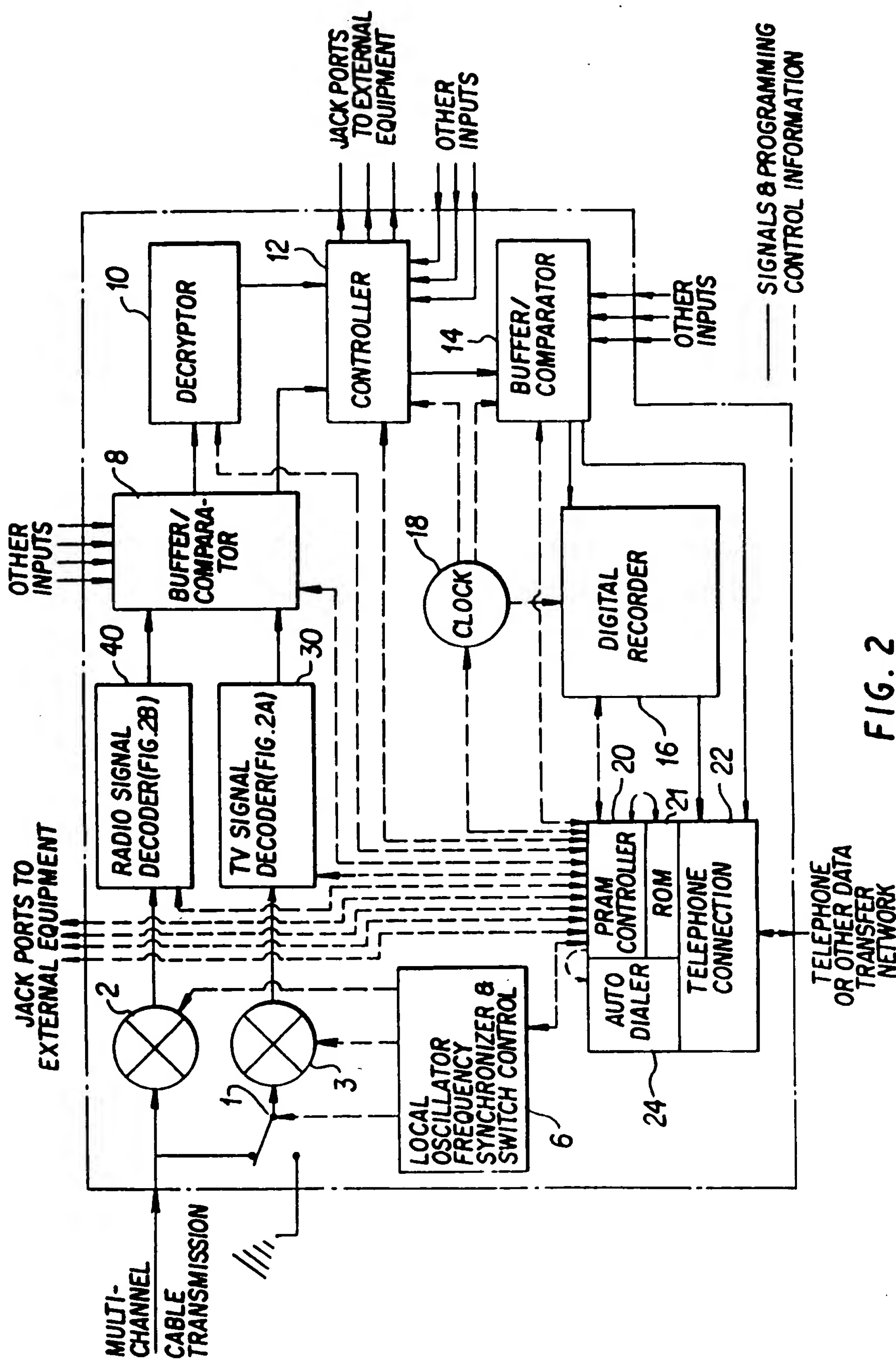


FIG. 2

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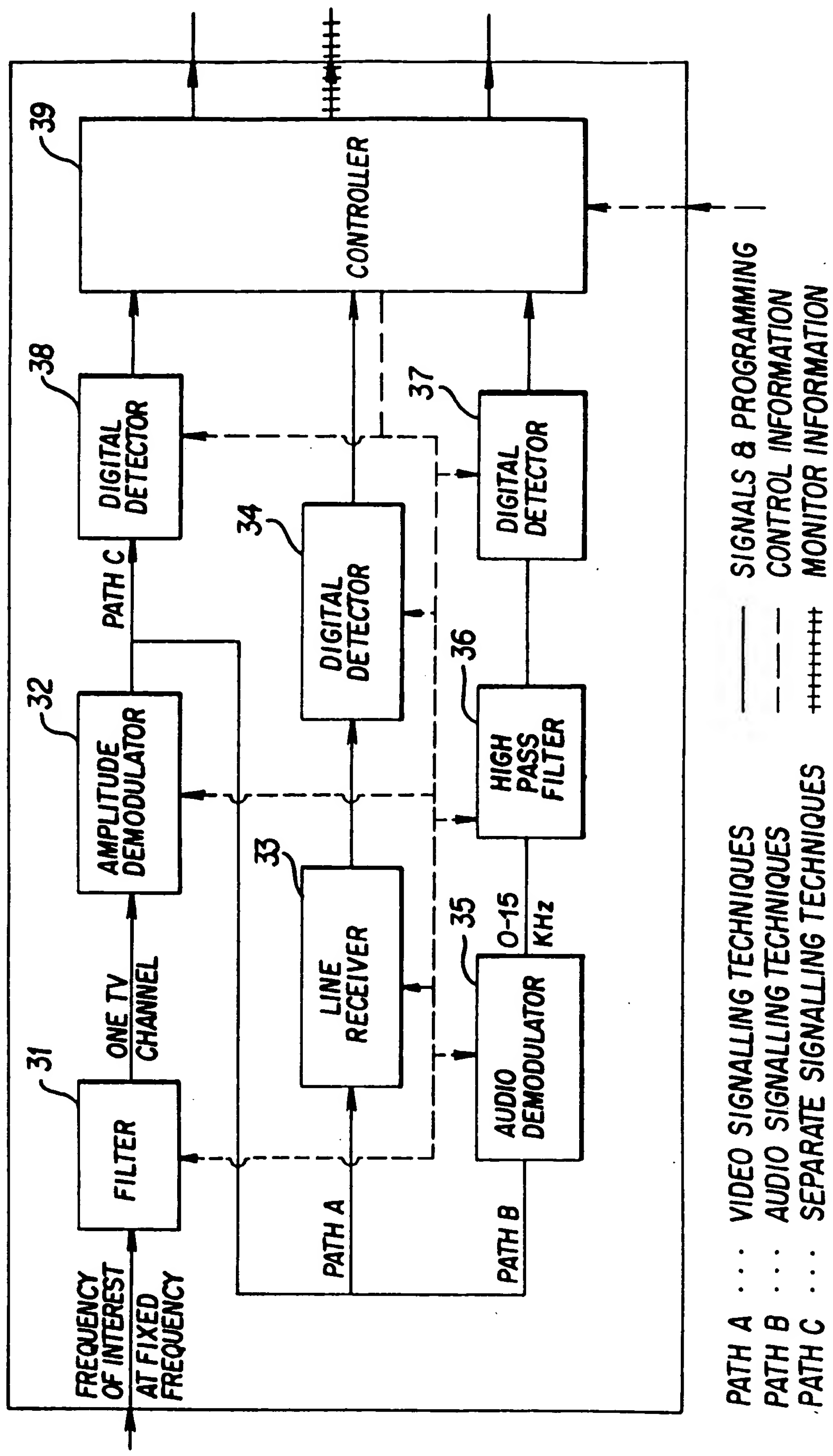
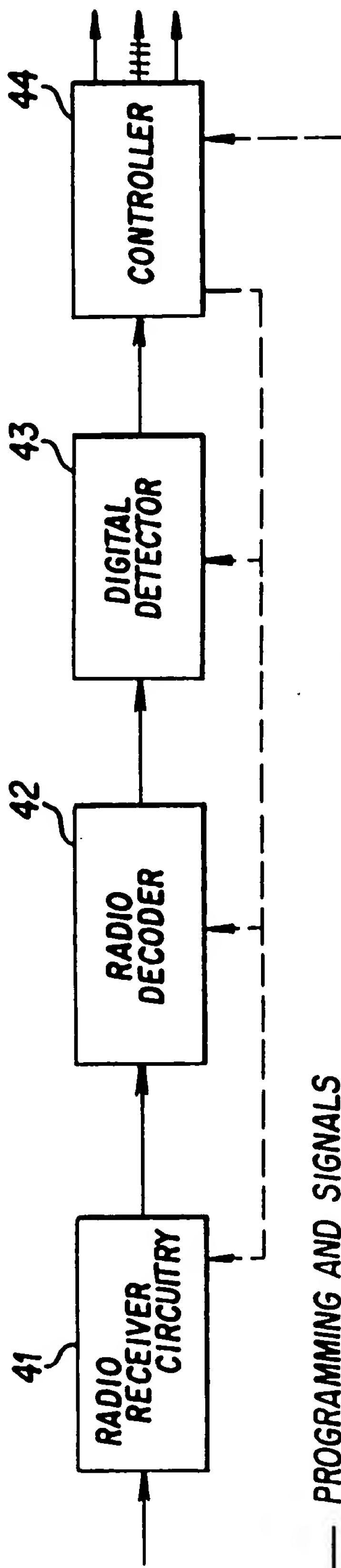


FIG. 2A



— PROGRAMMING AND SIGNALS
 --- CONTROL INFORMATION
 ++++ MONITOR INFORMATION

FIG. 2B

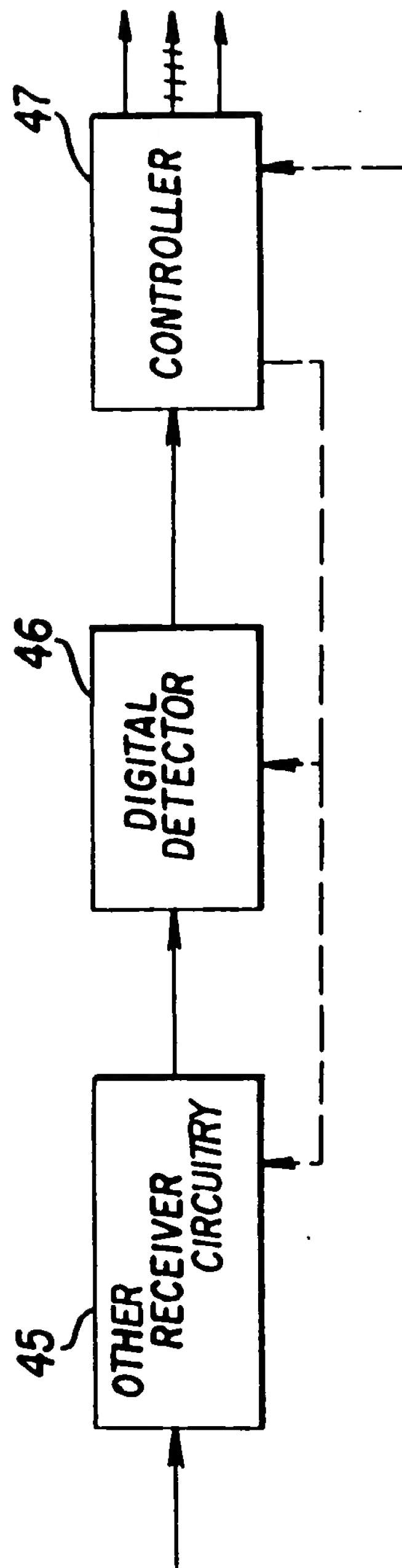


FIG. 2C

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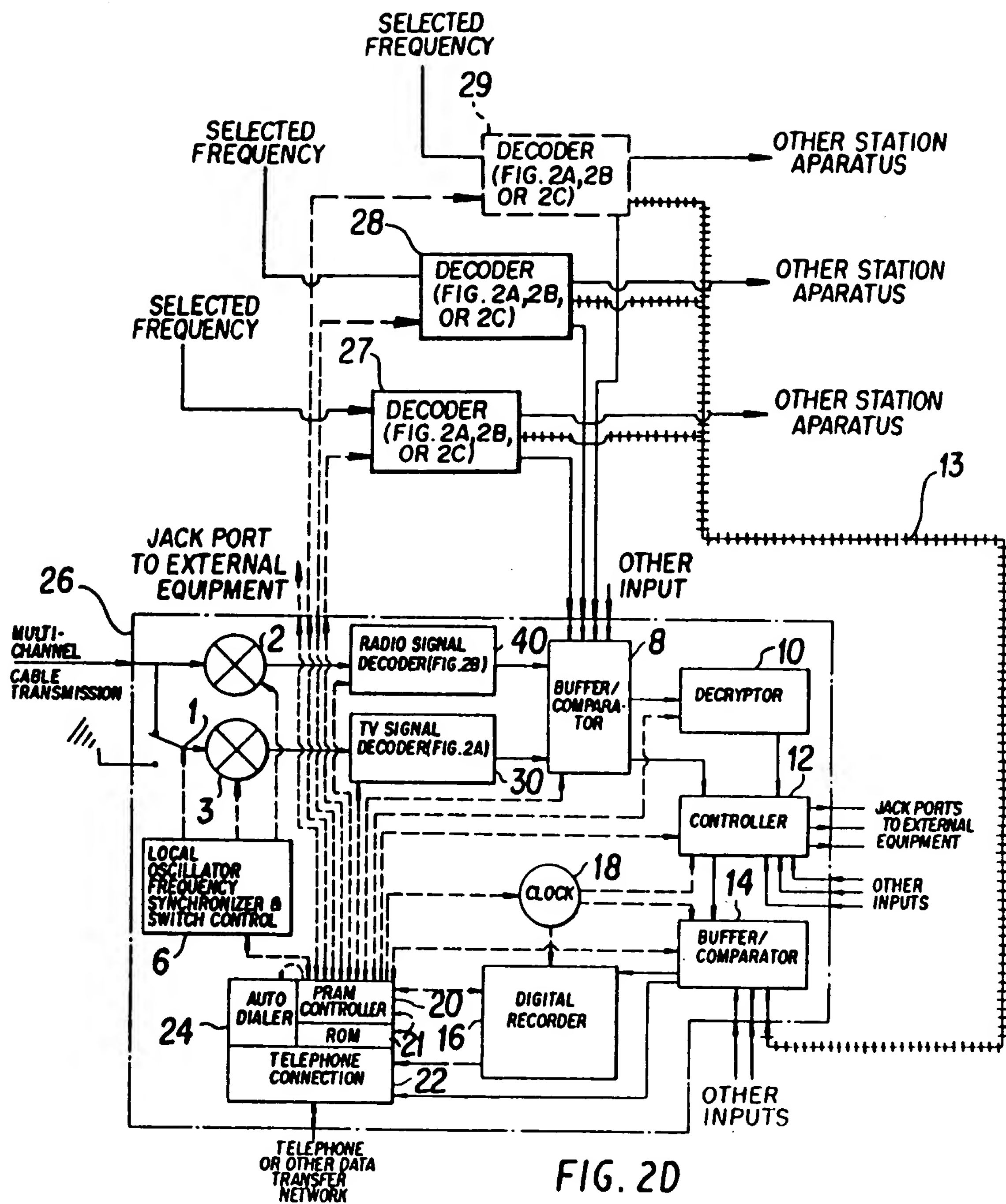


FIG. 2D

——— SIGNALS & PROGRAMMING
 - - - - - CONTROL INFORMATION
 + + + + + MONITOR INFORMATION

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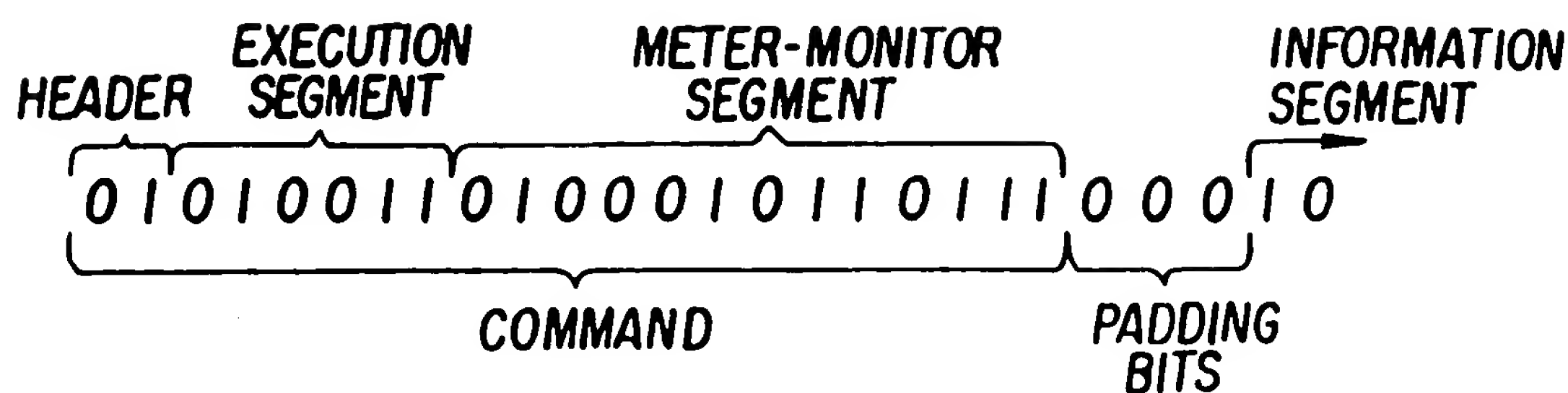


FIG. 2E

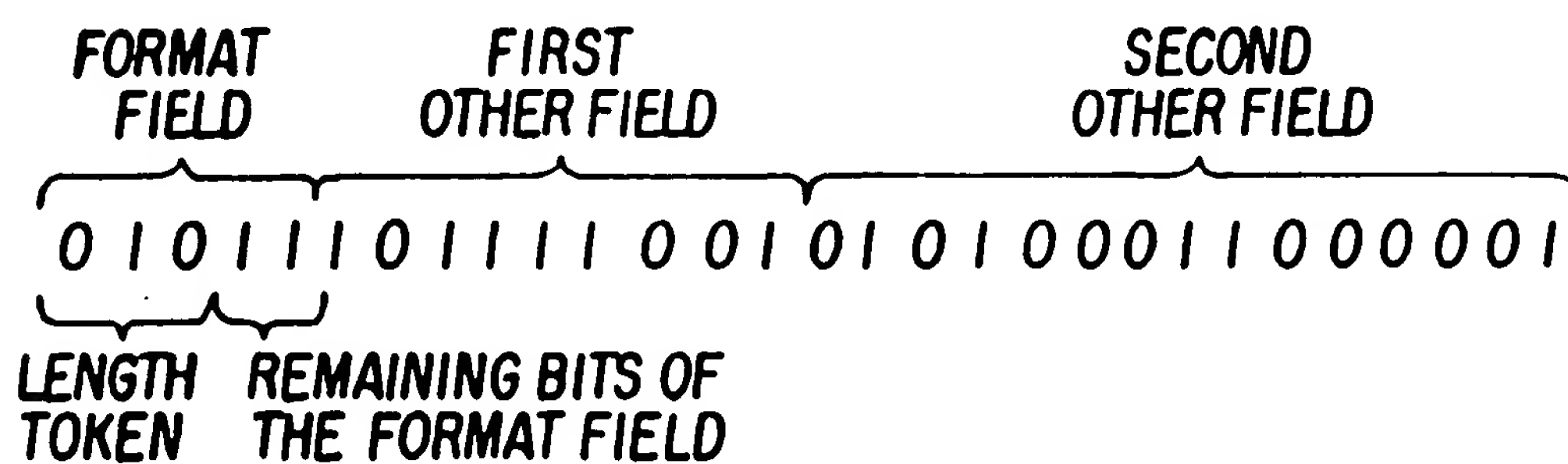


FIG. 2F

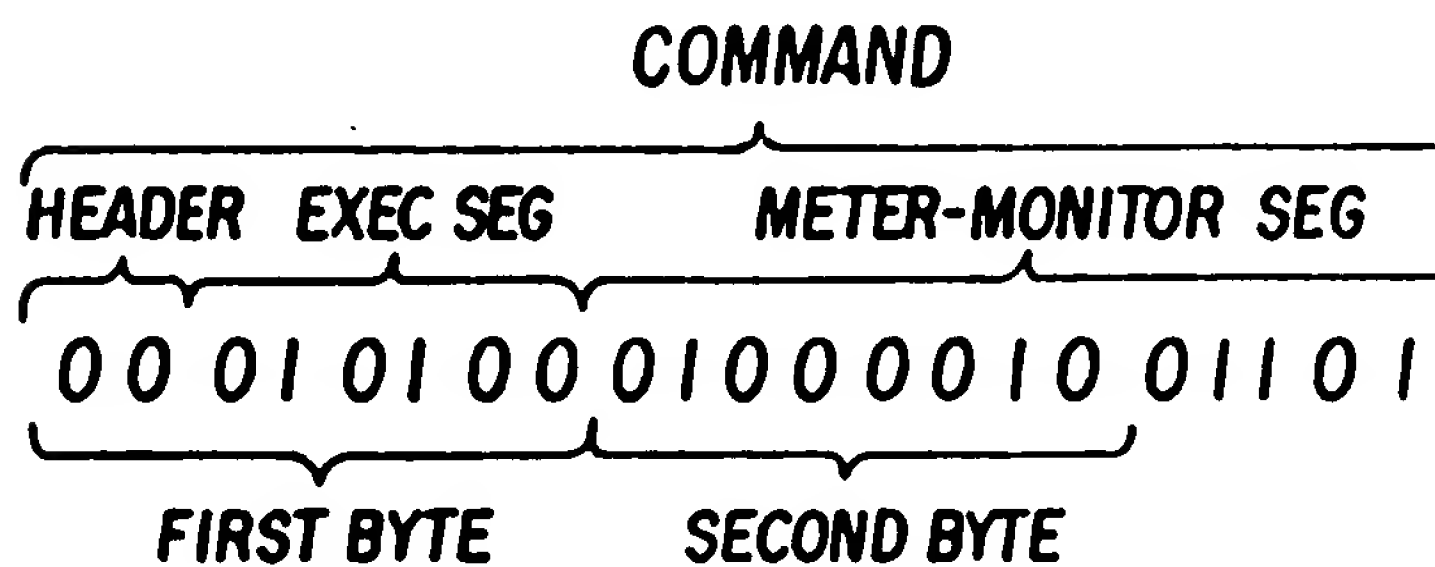


FIG. 2G

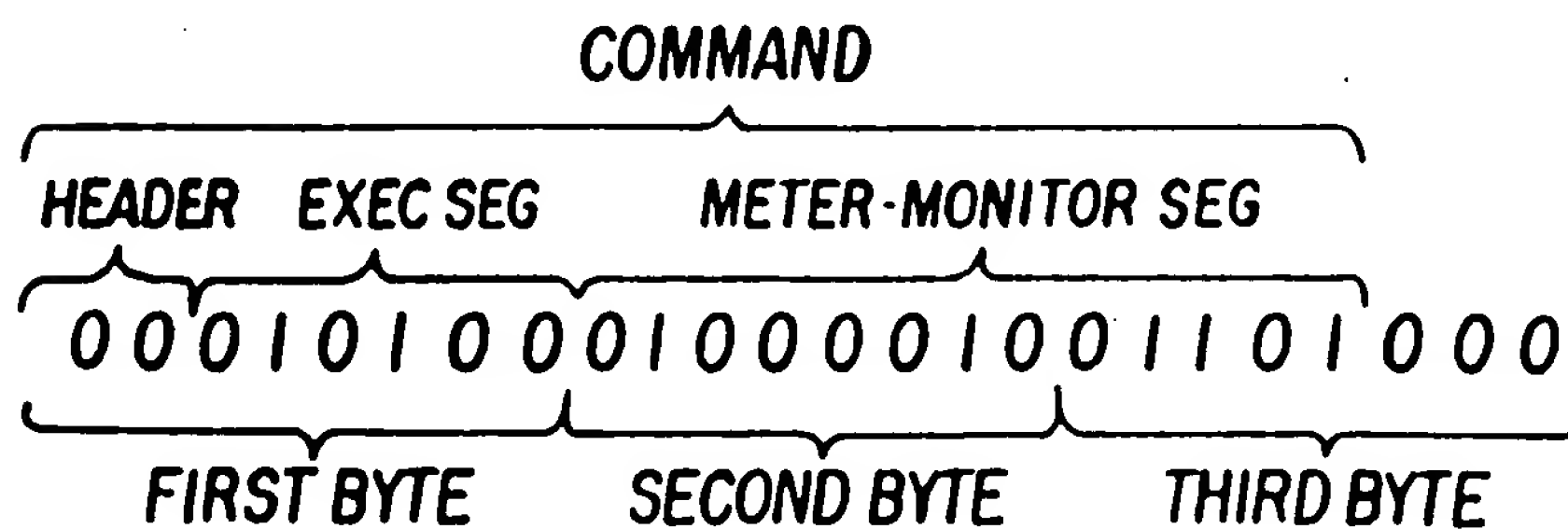


FIG. 2H

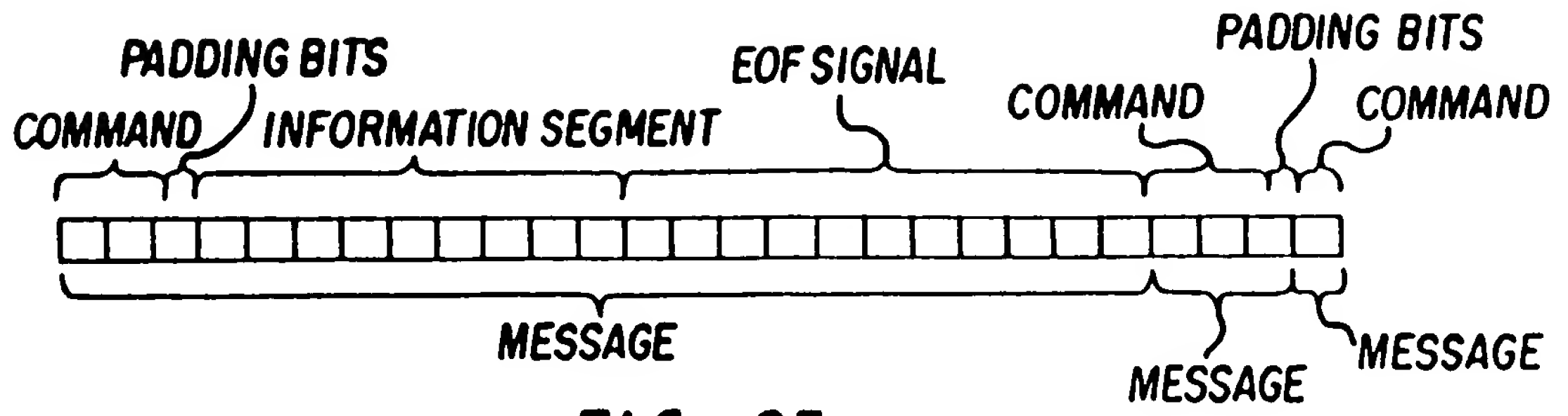


FIG. 2I

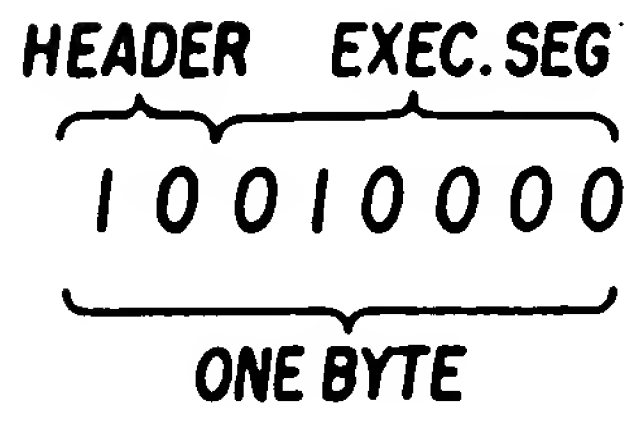


FIG. 2J

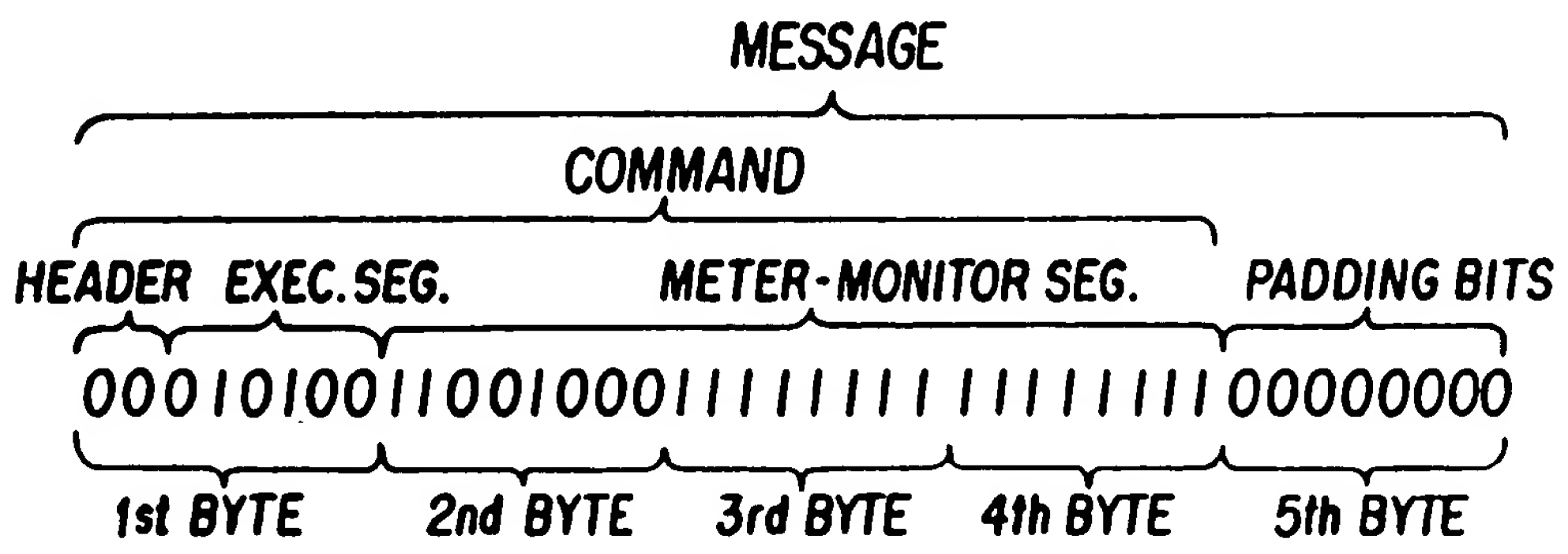
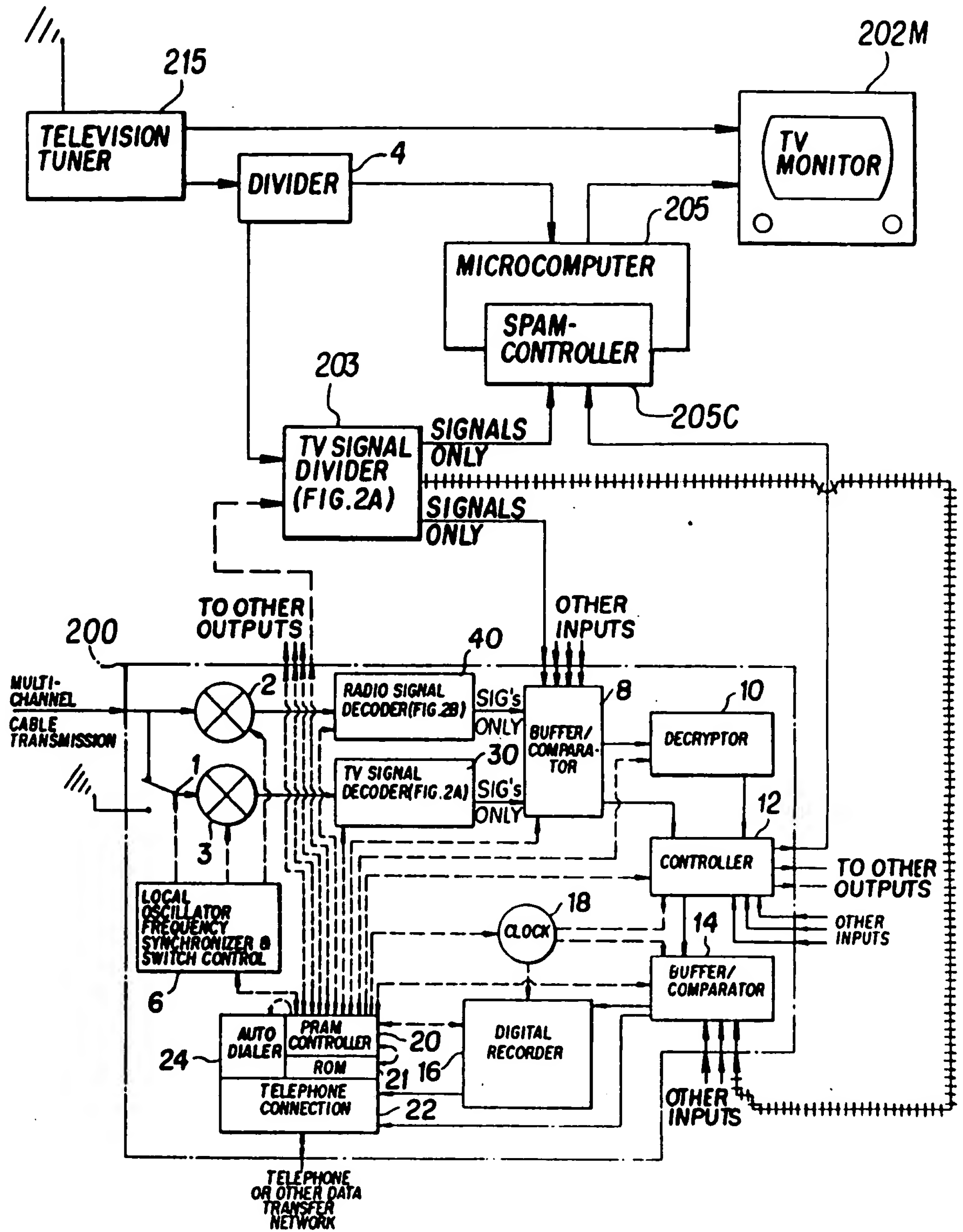


FIG. 2K

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— SIGNALS & PROGRAMMING
 --- CONTROL INFORMATION

FIG. 3

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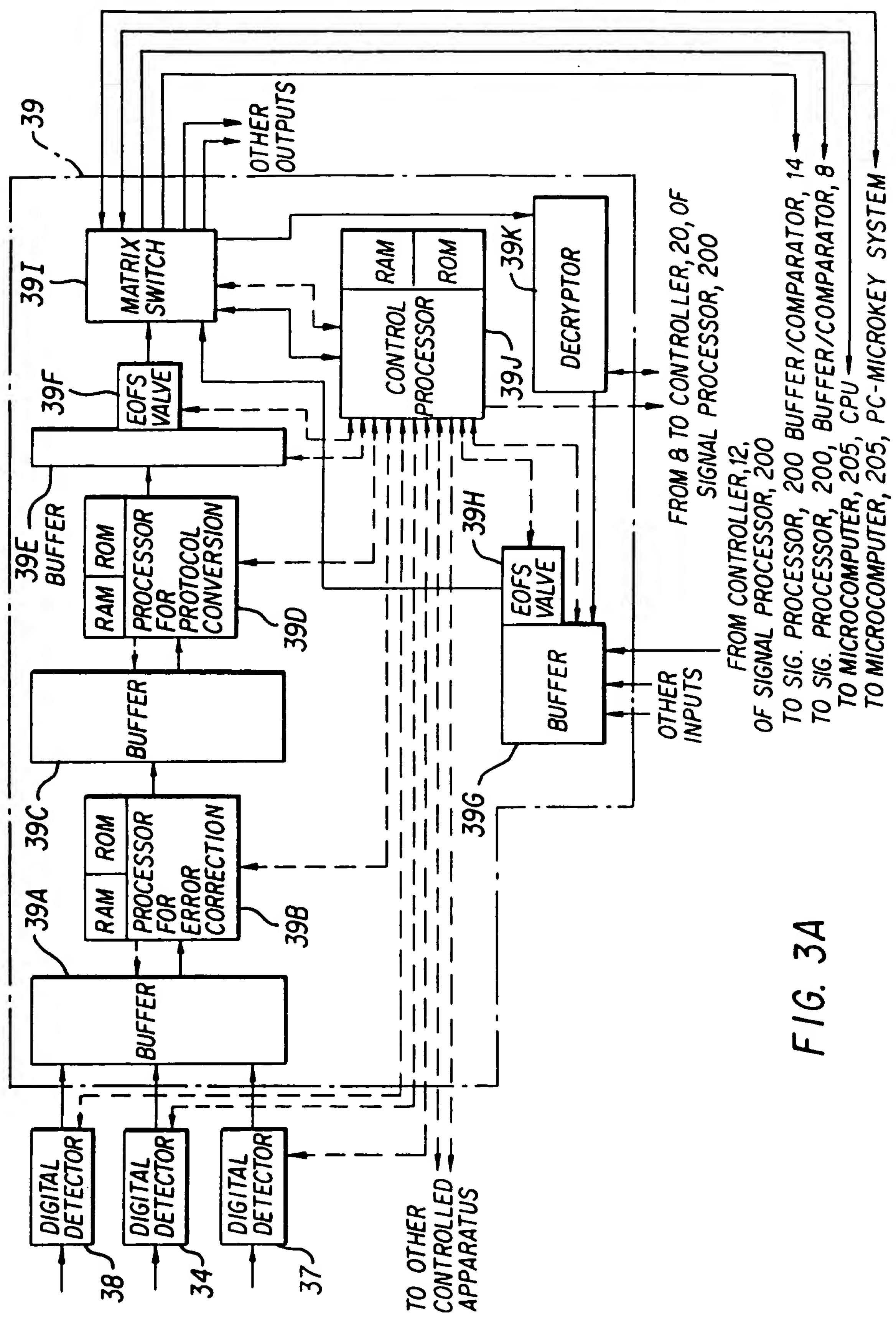
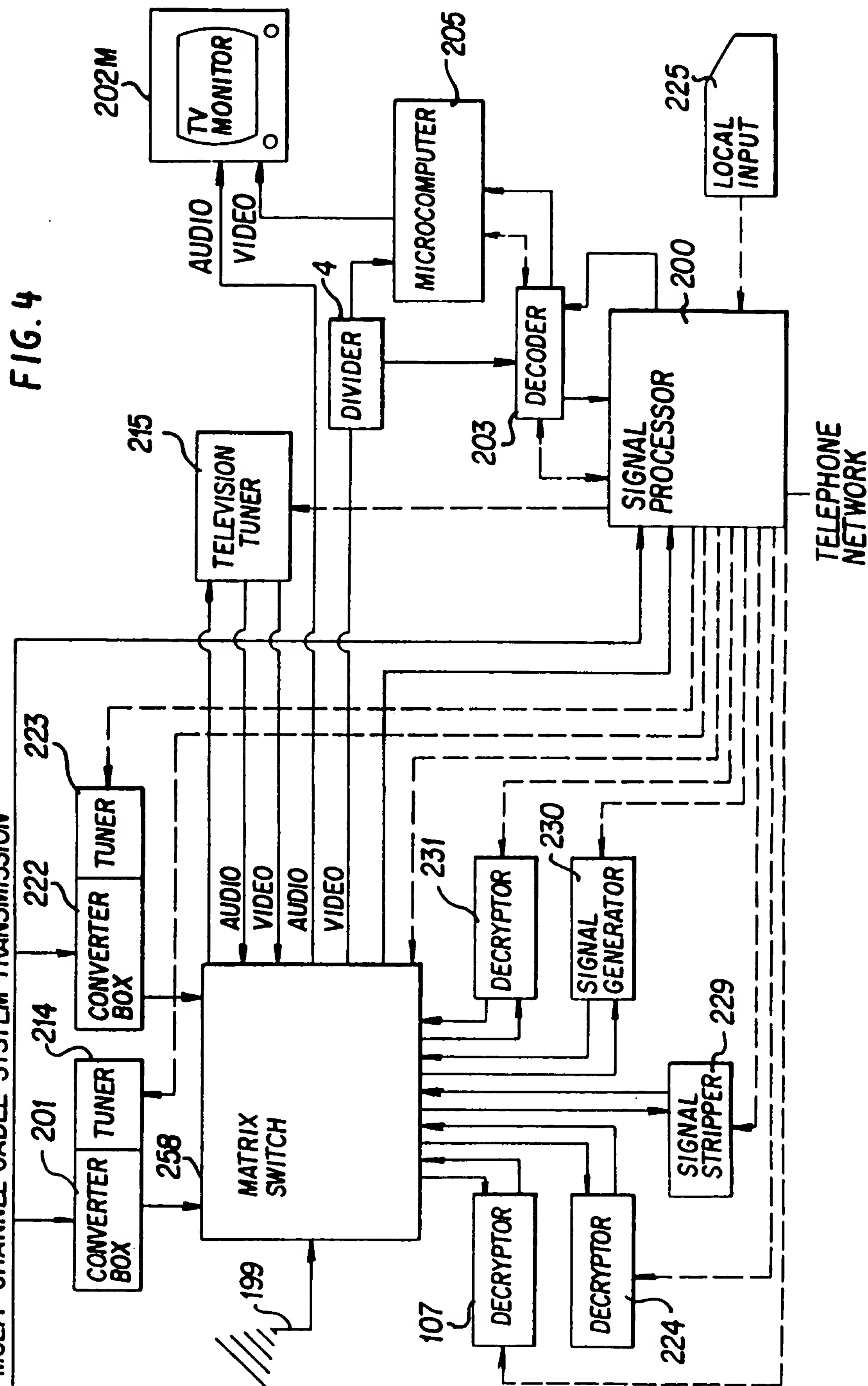


FIG. 3A

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MULTI-CHANNEL CABLE SYSTEM TRANSMISSION



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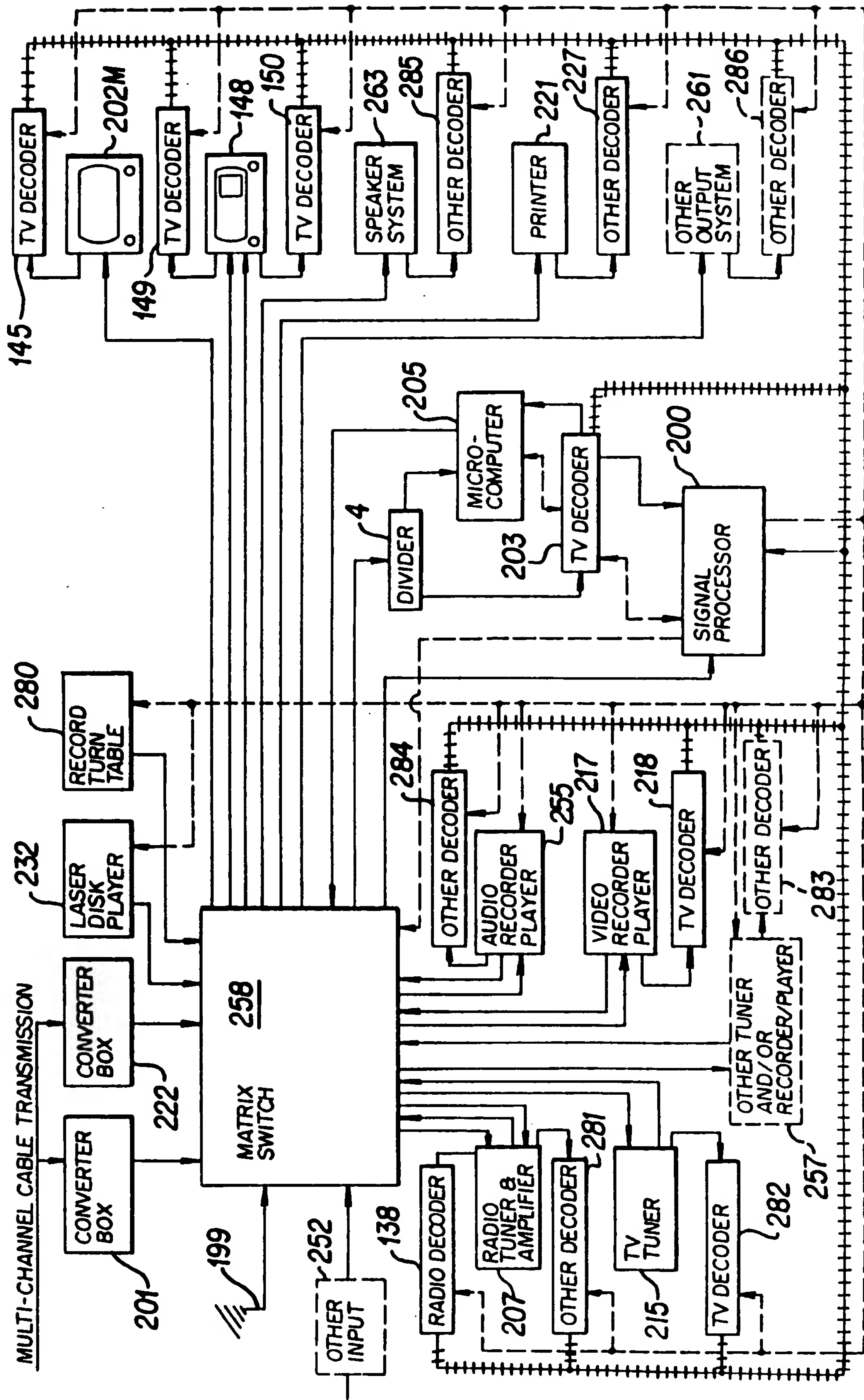
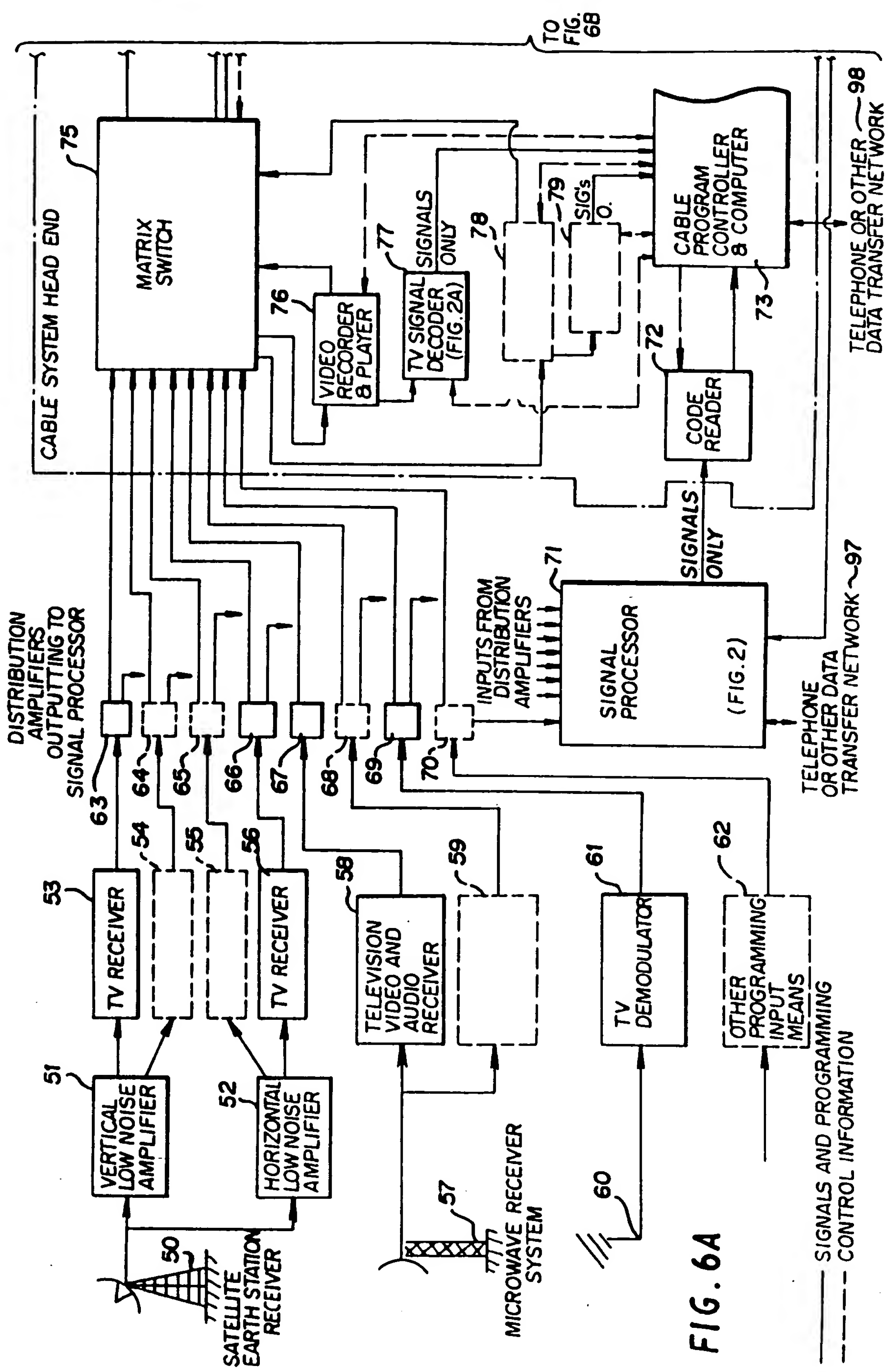


FIG. 5

PROGRAMMING +++++ MONITOR INFORMATION --- CONTROL INFORMATION

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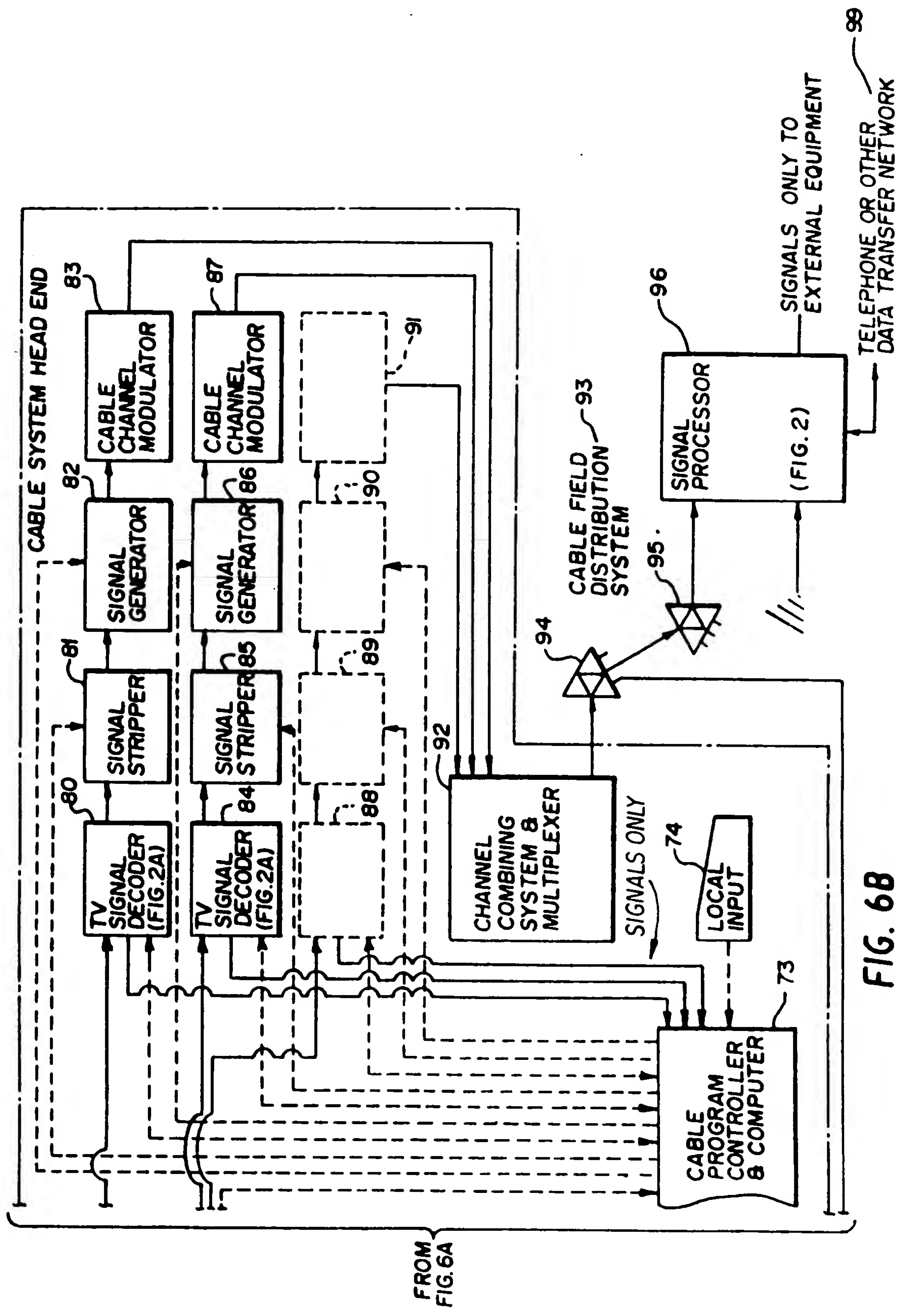


FIG. 6B

The diagram illustrates a multi-channel cable system architecture. At the top, a 'MULTI-CHANNEL CABLE SYSTEM' line (200) branches into two 'CABLE CONVERTER BOX' units (201 and 222). Unit 201 is connected to a 'SATELLITE RECEIVER CIRCUITRY' (251) which receives input from an 'EARTH STATION' (250). Unit 222 is connected to a 'TELEPHONE NETWORK' (258). Both converter boxes feed into a central 'MATRIX SWITCH' (252). This switch is also connected to a 'SIGNAL PROCESSOR (FIG. 2)' (200) and a 'MICRO COMPUTER' (205). The signal processor and micro computer are interconnected and both have multiple output lines leading to a second 'MATRIX SWITCH' (259). This second switch is connected to a 'SIGNAL GENERATOR' (230) and a group of processing units including two 'DECRYPTOR' blocks (224, 231), a 'SIGNAL STRIPPER' (229), and 'OTHER INTERMEDIATE APPARATUS' (257). These units then feed into a final 'MATRIX SWITCH' (260). The outputs of this switch are distributed to various end-user devices: 'TV SET' (202), 'PRINTER' (221), 'SPEAKER SYSTEM' (263), 'UTILITIES METER' (262), 'WINDOW OPENING AND CLOSING MEANS' (208), 'FURNACE' (206), 'AIR CON. SYSTEM' (207), and 'OTHER EQUIPMENT' (260). A 'LOCAL INPUT' (225) and a 'RADIO' (209) are also shown as inputs to the system. Ground symbols (298, 299) are indicated at the bottom.

FIG. 7

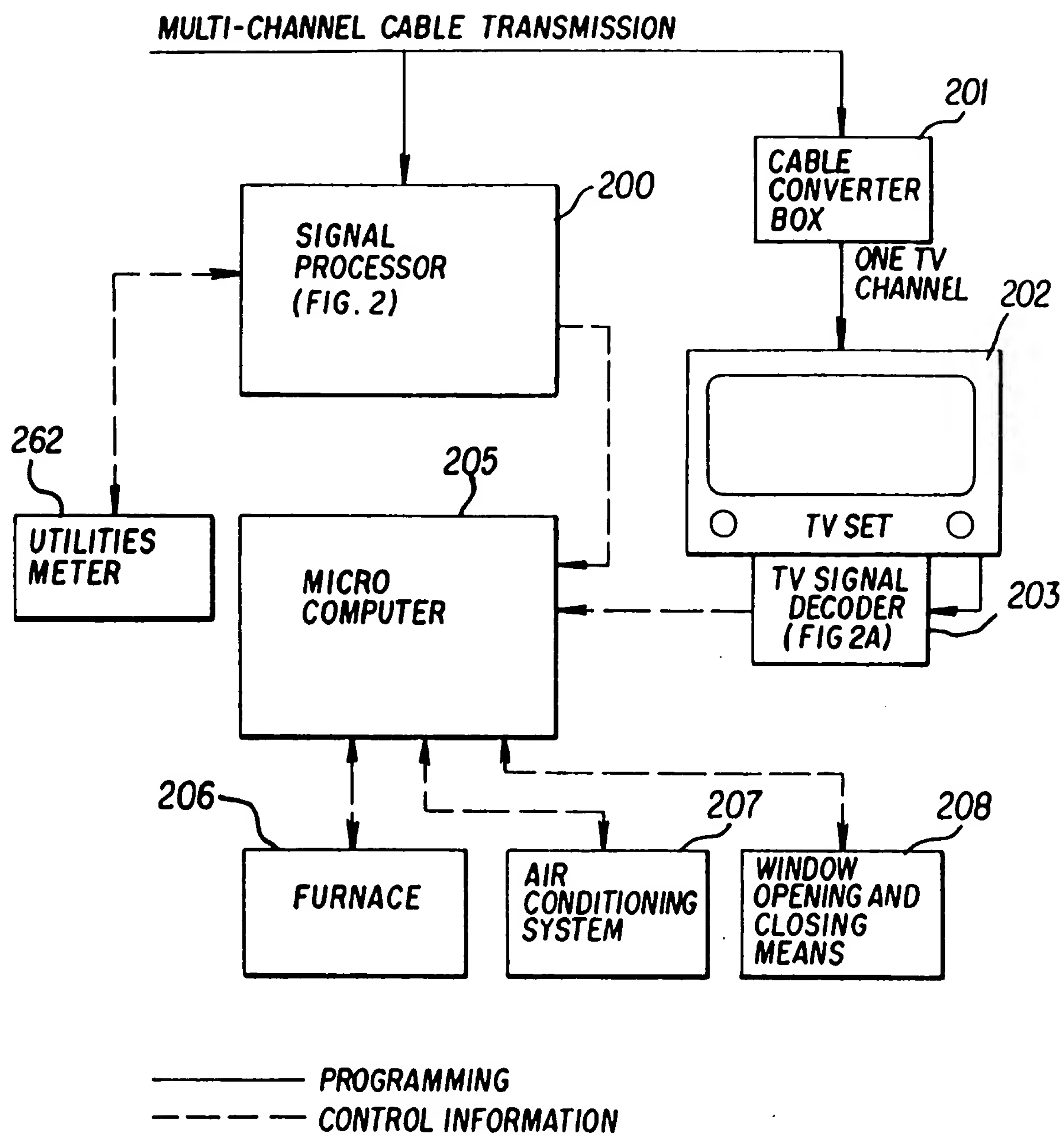


FIG. 7A

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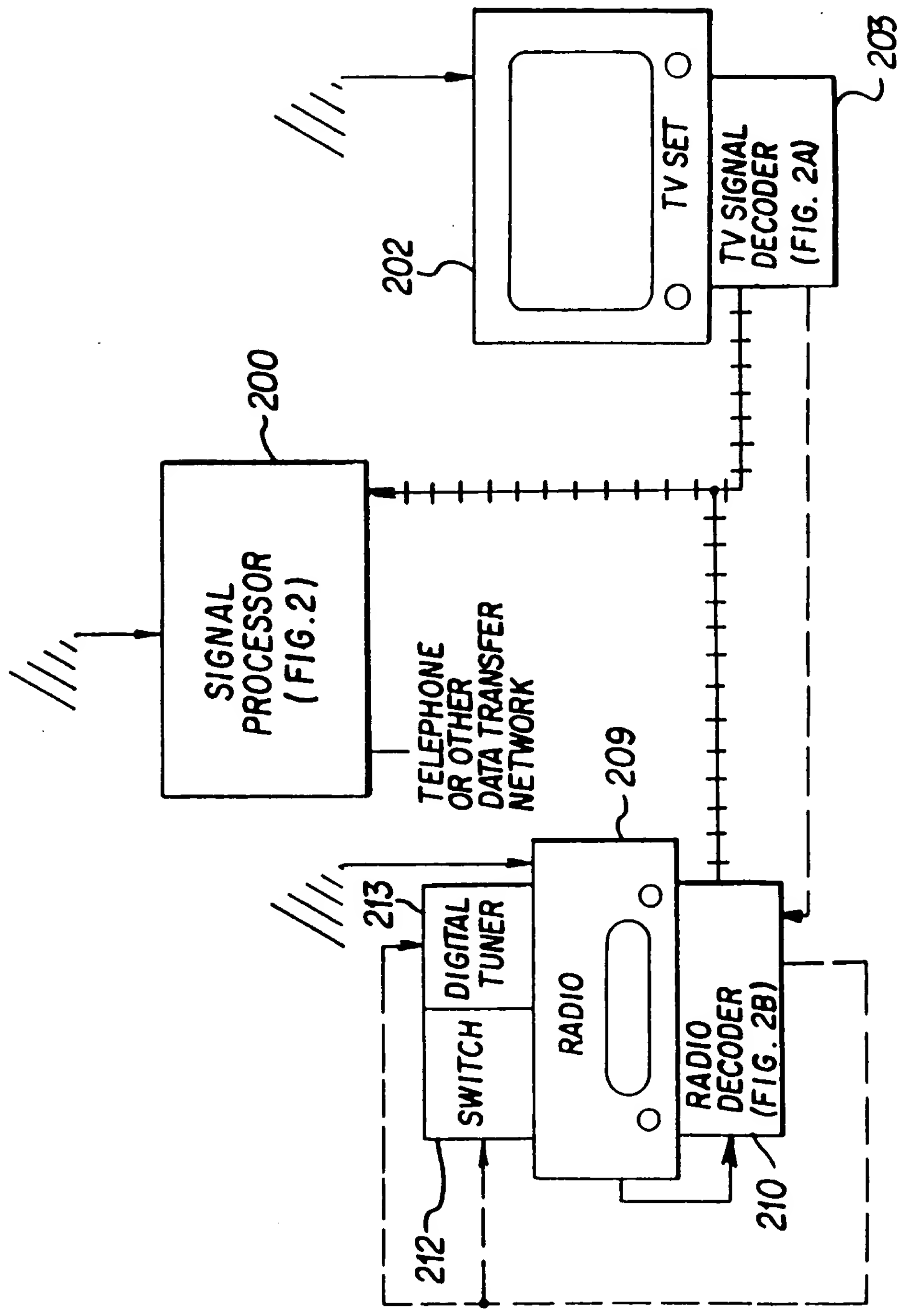


FIG. 7B

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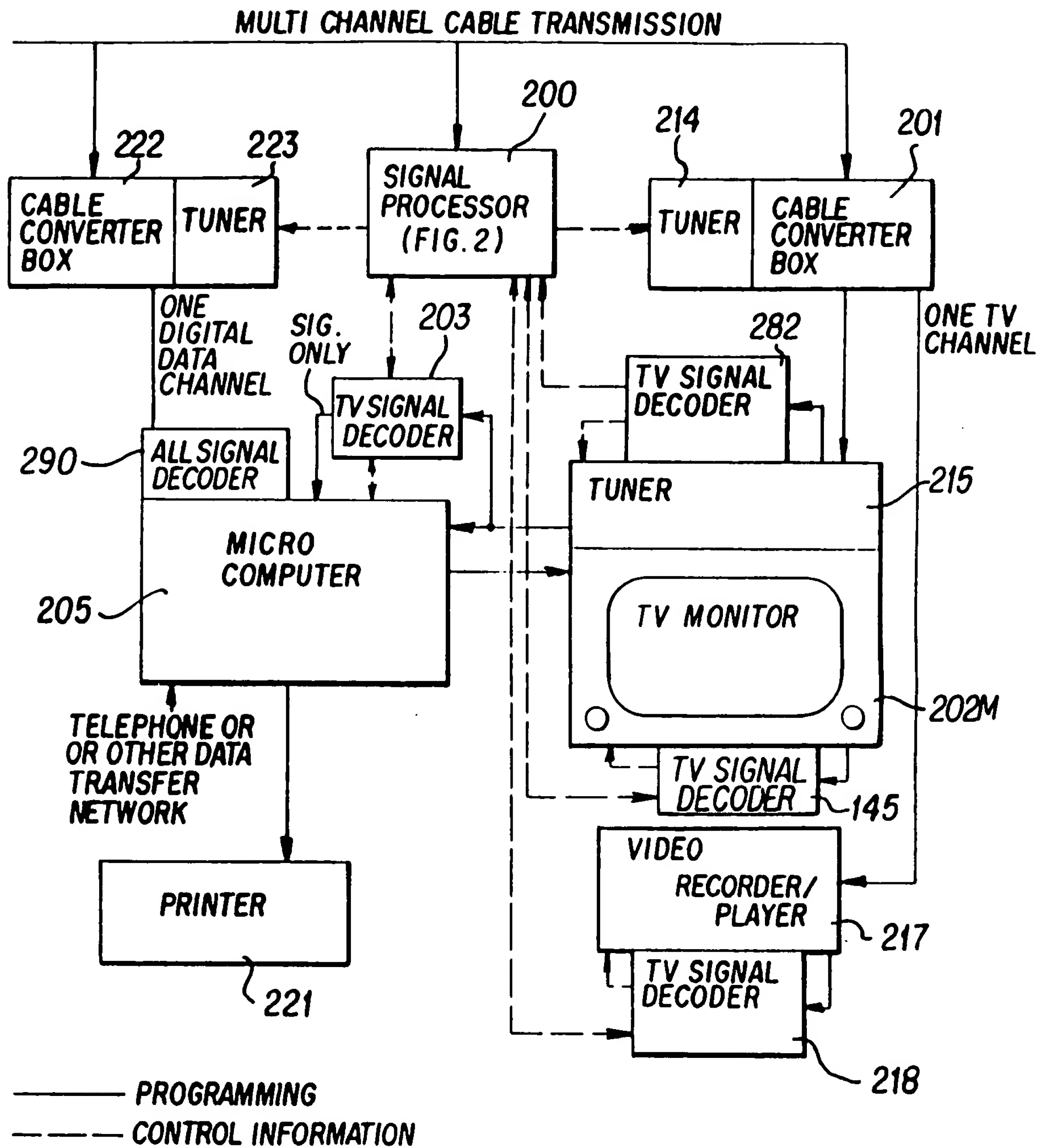


FIG. 7C

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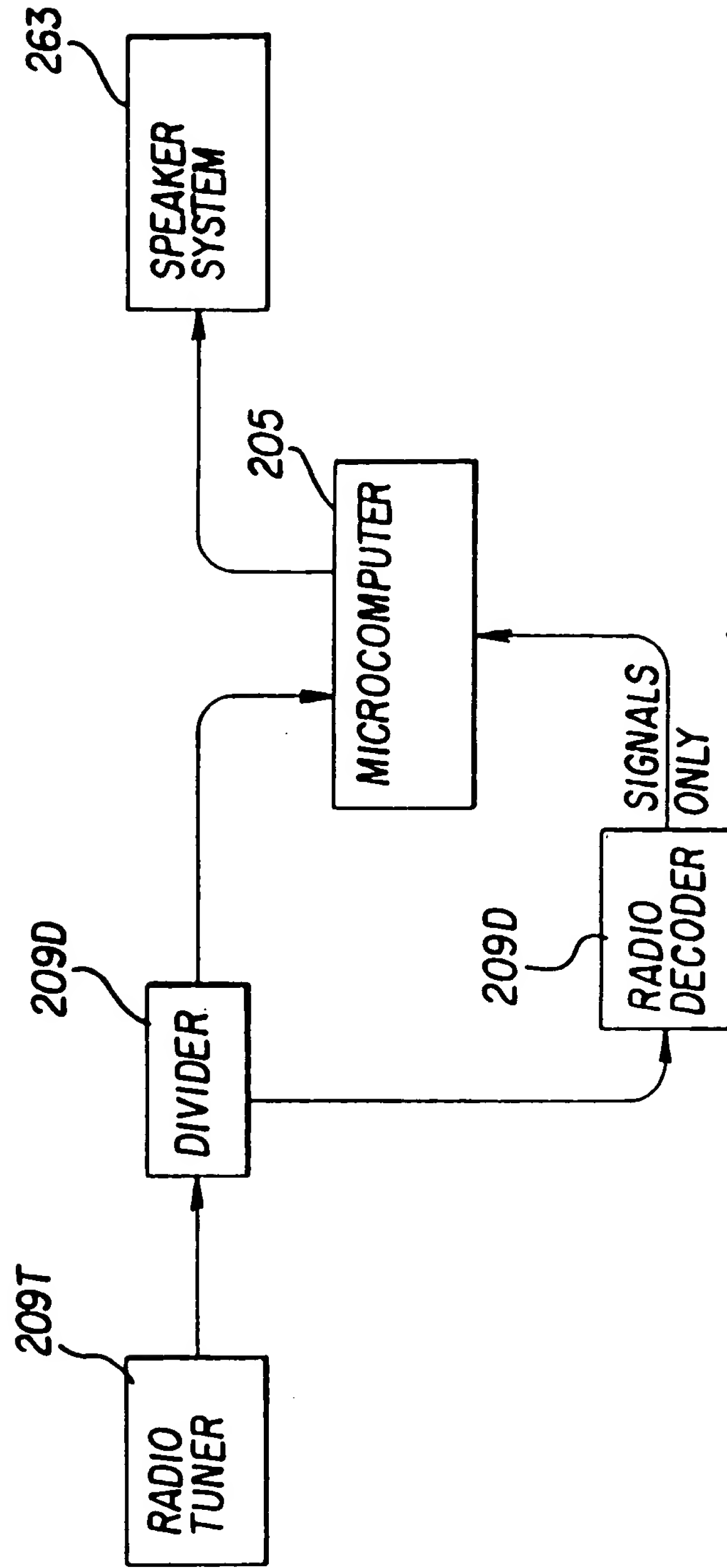


FIG. 7D

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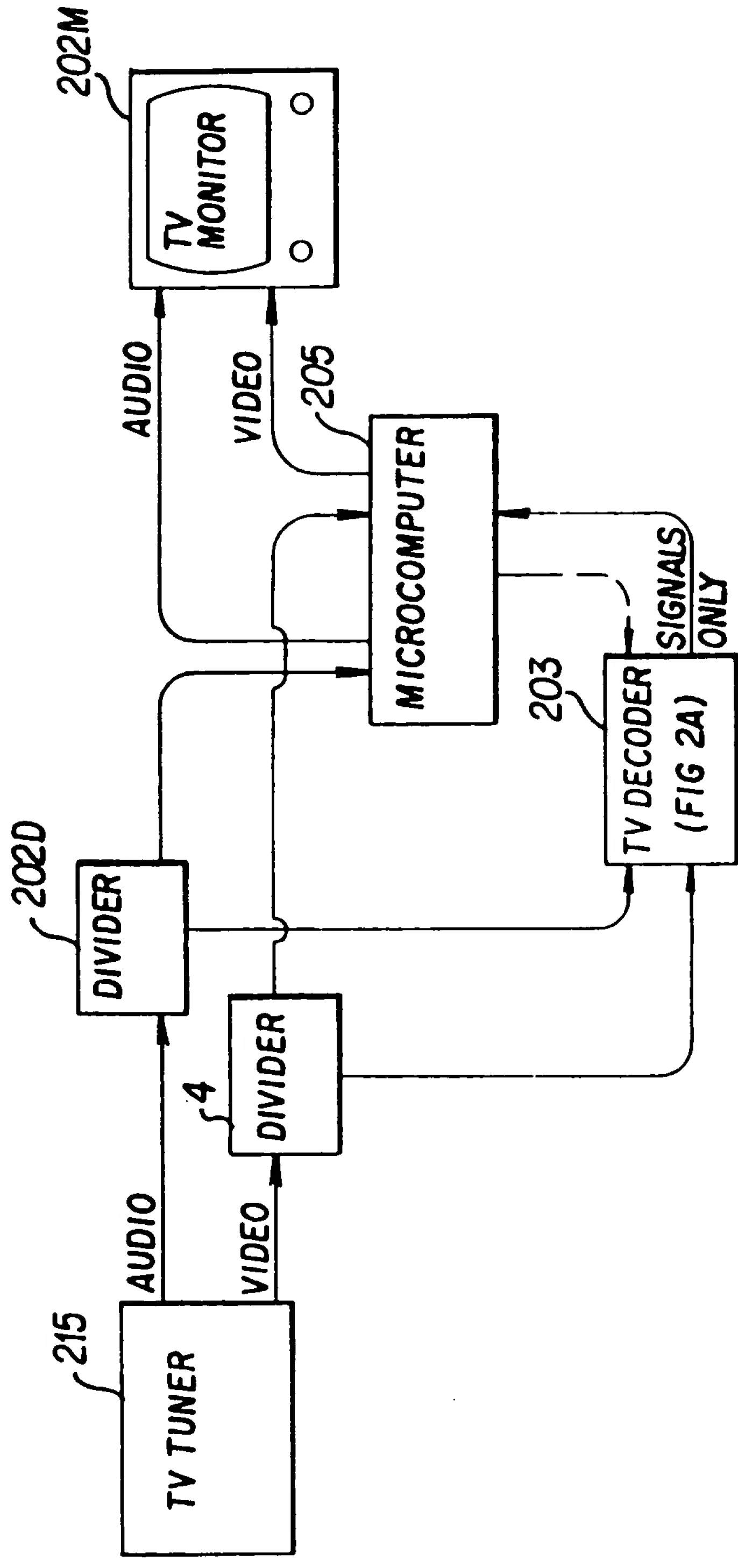
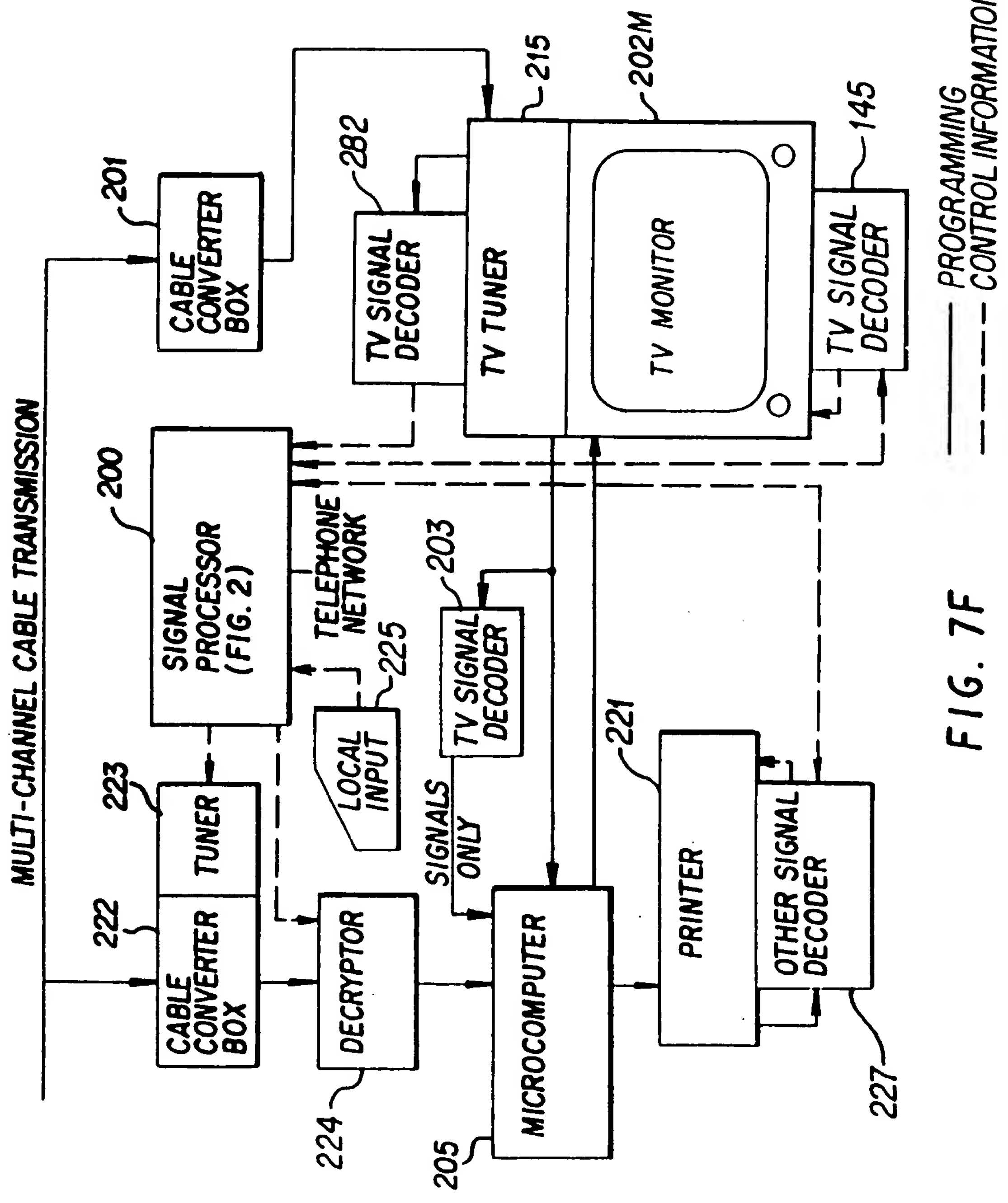


FIG. 7E

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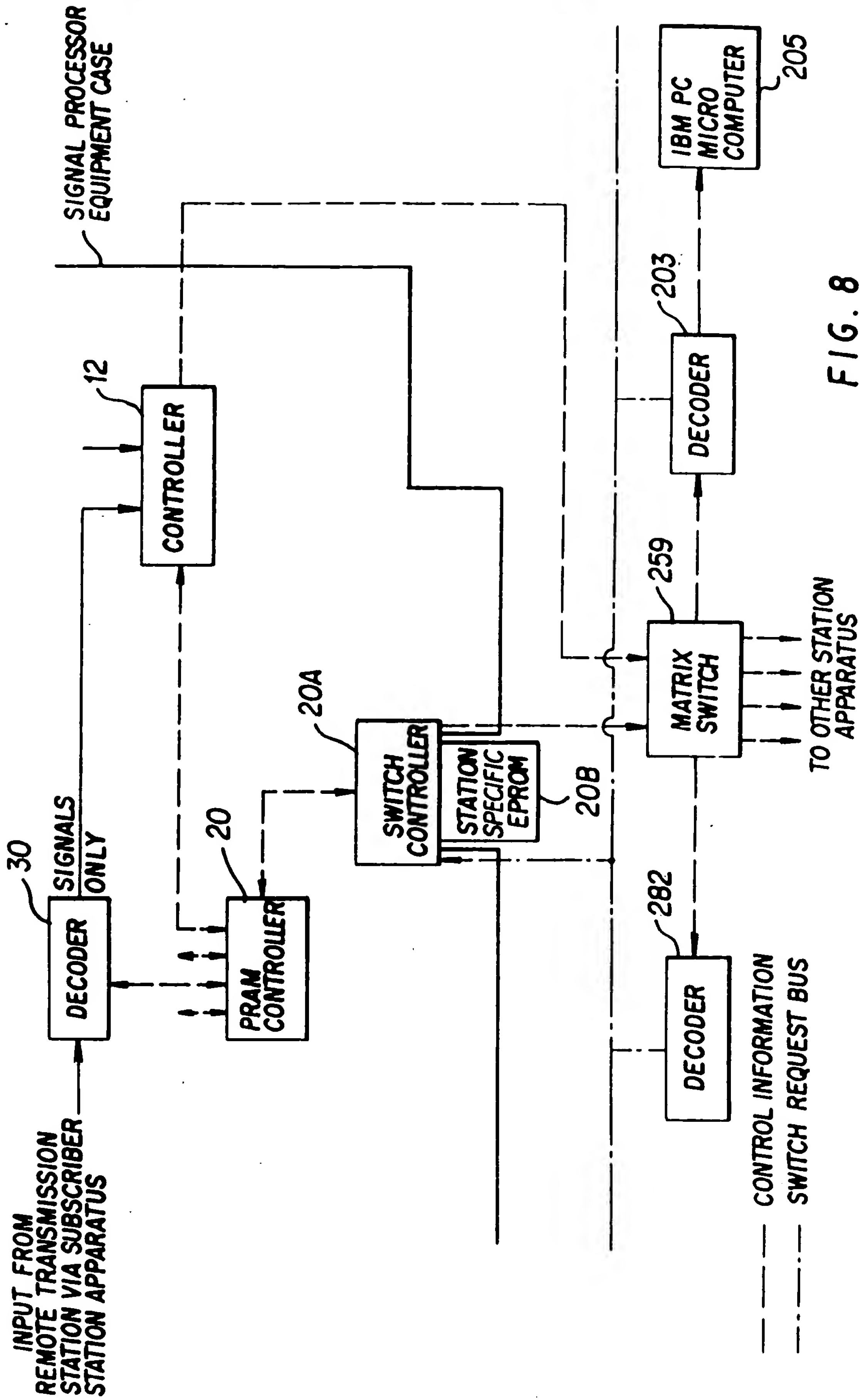


FIG. 8